

## AMENDMENTS

Please amend the above-identified application as follows:

### Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims:

What is claimed is:

1. (Currently Amended) A computer-implemented method for cross domain security information conversion, the computer comprising a computer processor and a computer memory operatively coupled to the computer processor, the computer memory having disposed within it computer program instructions that execute the method, the method comprising:

receiving from a system entity, in a security service, security information in a native format of a first security domain regarding a system entity having an identity in at least one security domain, wherein the system entity comprises automated computing machinery;

translating the security information to a canonical format for security information, wherein the canonical format is a data format for security information that is standardized for use in data transformations of security information;

transforming the security information in the canonical format using a predefined mapping from the first security domain to a second security domain;

translating the transformed security information in the canonical format to a native format of the second security domain; and

returning to the system entity the security information in the native format of the second security domain.

2. (Original) The method of claim 1 wherein transforming the security information includes structure transformation and value transformation, including mapping a system entity's identity in the first security domain to a another identity in the second security domain.
3. (Original) The method of claim 1 wherein receiving security information further comprises receiving a request for security information for the second security domain, wherein the request encapsulates the security information in a native format of a first security domain.
4. (Original) The method of claim 3 wherein the system entity comprises a system entity requesting access to a resource in the second security domain.
5. (Original) The method of claim 3 wherein the system entity comprises a system entity providing access to a resource in the second security domain.
6. (Original) The method of claim 1 wherein translating the security information in a native format of a first security domain to a canonical format is carried out through a procedural software function.
7. (Original) The method of claim 1 wherein the native format of the first security domain is expressed in XML, the canonical format is expressed in XML, and translating the security information in a native format of a first security domain to a canonical format is carried out in dependence upon a mapping, expressed in XSL, from the native format of the first security domain to a canonical format.

8. (Original) The method of claim 1 wherein the canonical format is expressed in XML and the predefined mapping from the first security domain to a second security domain is expressed in XSL.
9. (Original) The method of claim 1 wherein the second native format is expressed in XML, the canonical format is expressed in XML, and translating the transformed security information in the canonical format to a native format of the second security domain is carried out in dependence upon a predefined mapping, expressed in XSL, from the canonical format to the native format of the second security domain.
10. (Currently Amended) A system for cross domain security information conversion, the system comprising a computer processor operatively coupled to a computer memory, the computer memory having disposed within it computer program instructions for:

~~means for~~ receiving from a system entity, in a security service, security information in a native format of a first security domain regarding a system entity having an identity in at least one security domain;

~~means for~~ translating the security information to a canonical format for security information;

~~means for~~ transforming the security information in the canonical format using a predefined mapping from the first security domain to a second security domain;

~~means for~~ translating the transformed security information in the canonical format to a native format of the second security domain; and

~~means for~~ returning to the system entity the security information in the native format of the second security domain.

11. (Currently Amended) The system of claim 10 wherein ~~means for~~ transforming the security information includes ~~means for~~ structure transformation and value transformation, including ~~means for~~ mapping a system entity's identity in the first security domain to a another identity in the second security domain.
12. (Currently Amended) The system of claim 10 wherein ~~means for~~ receiving security information further comprises ~~means for~~ receiving a request for security information for the second security domain, wherein the request encapsulates the security information in a native format of a first security domain.
13. (Original) The system of claim 12 wherein the system entity comprises a system entity requesting access to a resource in the second security domain.
14. (Original) The system of claim 12 wherein the system entity comprises a system entity providing access to a resource in the second security domain.
15. (Currently Amended) The system of claim 10 wherein ~~means for~~ translating the security information in a native format of a first security domain to a canonical format comprises a procedural software function.
16. (Currently Amended) The system of claim 10 wherein ~~means for~~ translating the security information in a native format of a first security domain to a canonical format comprises a mapping, expressed in XSL, from the native format of the first security domain to a canonical format.
17. (Original) The system of claim 10 wherein the canonical format is expressed in XML and the predefined mapping from the first security domain to a second security domain is expressed in XSL.

18. (Currently Amended) The system of claim 10 wherein the second native format is expressed in XML, the canonical format is expressed in XML, and means for translating the transformed security information in the canonical format to a native format of the second security domain comprises a predefined mapping, expressed in XSL, from the canonical format to the native format of the second security domain.
19. (Currently Amended) A computer program product for cross domain security information conversion, the computer program product embodied on a recordable computer-readable medium, the computer program product comprising computer program instructions which when installed and executed on a data processing system, are capable causing the data processing system to carry out the steps of:
- receiving from system entity, in a security service, security information in a native format of a first security domain regarding a system entity having an identity in at least one security domain, wherein the system entity comprises automated computing machinery
- translating the security information to a canonical format for security information;
- transforming the security information in the canonical format using a predefined mapping from the first security domain to a second security domain;
- translating the transformed security information in the canonical format to a native format of the second security domain; and
- returning to the system entity the security information in the native format of the second security domain.

20. (Currently Amended) The computer program product of claim 19 wherein computer program instructions for transforming the security information includes computer program instructions for structure transformation and value transformation, including computer program instructions for mapping a system entity's identity in the first security domain to another identity in the second security domain.
21. (Currently Amended) The computer program product of claim 19 wherein computer program instructions for receiving security information further comprises computer program instructions for receiving a request for security information for the second security domain, wherein the request encapsulates the security information in a native format of a first security domain.
22. (Previously Amended) The computer program product of claim 21 wherein the system entity comprises a system entity requesting access to a resource in the second security domain.
23. (Currently Amended) The computer program product of claim 21 wherein the ~~computer program product~~ system entity comprises a system entity providing access to a resource in the second security domain.
24. (Currently Amended) The computer program product of claim 19 wherein computer program instructions for translating the security information in a native format of a first security domain to a canonical format comprises a procedural software function.
25. (Currently Amended) The computer program product of claim 19 wherein computer program instructions for translating the security information in a native format of a first security domain to a canonical format comprises a mapping, expressed in XSL, from the native format of the first security domain to a canonical format.

26. (Original) The computer program product of claim 19 wherein the canonical format is expressed in XML and the predefined mapping from the first security domain to a second security domain is expressed in XSL.
27. (Currently Amended) The computer program product of claim 19 wherein computer program instructions for translating the transformed security information in the canonical format to a native format of the second security domain comprises a procedural software function.
28. (Currently Amended) The computer program product of claim 19 wherein the second native format is expressed in XML, the canonical format is expressed in XML, and computer program instructions for translating the transformed security information in the canonical format to a native format of the second security domain comprises a predefined mapping, expressed in XSL, from the canonical format to the native format of the second security domain.